

Leading the Launch



IDAHO NATIONAL ENGINEERING AND ENVIRONMENTAL LABORATORY

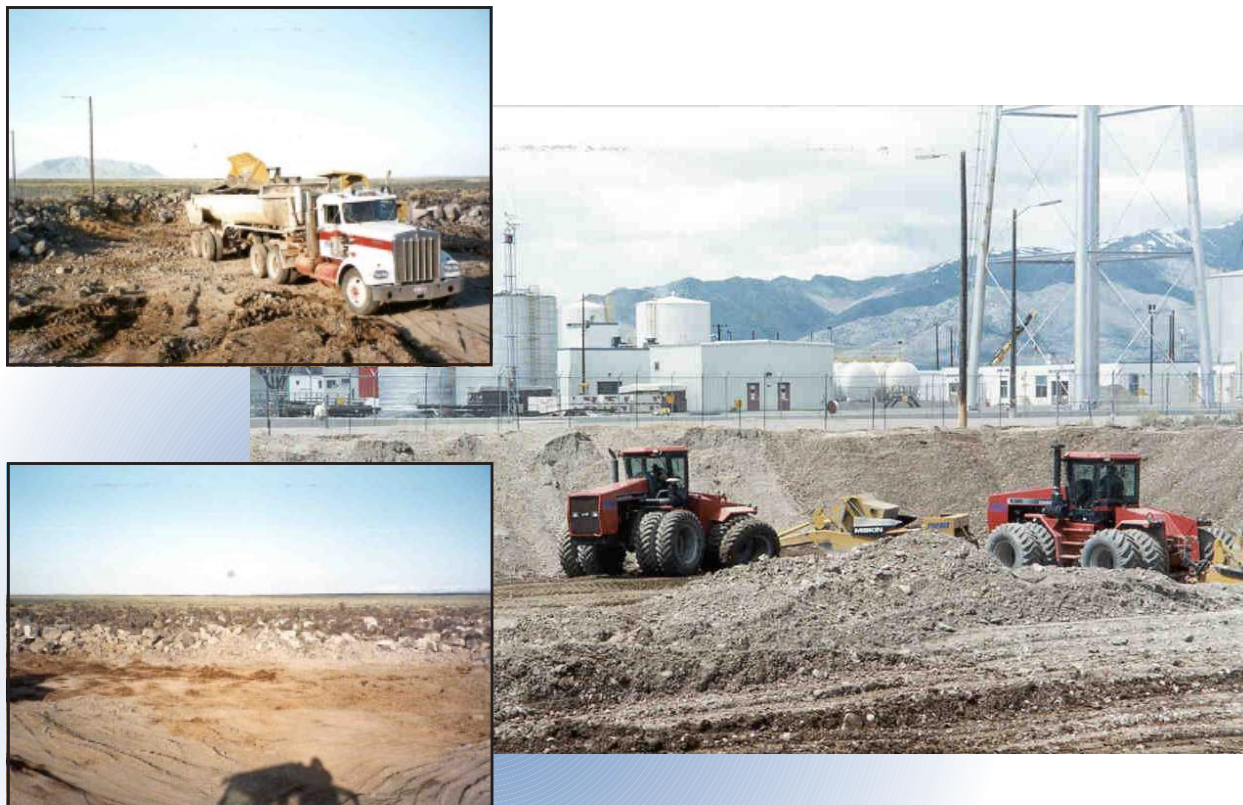
*Delivering a payload of
responsive technologies*



Technology Deployment



HOME OF SCIENCE AND ENGINEERING SOLUTIONS



Innovative Fill and Cover Technique

Problem

The Test Reactor Area Remediation project needed an efficient means to move soil and sort riprap to construct an engineered cover at the Chemical Waste and Warm Waste Ponds.

Baseline Technology

Conventionally operated front end loaders, dump trucks, graders, and riprap sorting screens.

Innovative Technology

A tractor-pulled Miskin scraper with dump control was used to collect, transport, and place soil. The bucket of a front-end loader was modified with sized-holes to allow sorting of riprap.

Comparison

This technique reduced the number of machines required from 3 to 1 to complete the engineered cover, reduced fuel consumption by 70%, and sorted riprap more efficiently.

Benefits

Use of this technique resulted in a \$1.1 million cost avoidance and accelerated the project schedule by 7 months.